

## Biosilico<sup>®</sup> CS.PC.5399

### Premium Additive for Multiple applications

**Biosilico CS.PC.5399** is a **colloidal dispersion of bio-based oleophobic silica**, synthesized from Rice Husk and used as a Multifunctional Additive for multiple applications based on **Solvent-borne systems**.

#### Product Benefits

- Repels oils, hydrocarbon fluids, water, lubricating oils, petroleum products etc.
- Improvement in hydrophobic and oleophobic behavior for solvent-borne coatings and treatments which can enhance water and oil repelling properties.
- Easy to clean/self cleaning effect
- Improvement in substrate wetting, water resistance, bluish resistance, Anti-blocking properties and weather resistance
- Recommended for use in solvent-borne topcoats such as 2 component polyurethane, alkyd/melamine, polyester/melamine, acrylate/melamine and acrylate/epoxy combinations.
- Due to high surface activity, colloidal silica accumulates on the surface of the coating, and because of -OH reactivity (Primary & secondary), it can be integrated into the polymer network by reacting with suitable binders. Hence, effects of which are maintained for a long period of time.
- **Recommended dosage:** 4-8% (as supplied on total formulation weight.)
- **Incorporation:** Oleophobic colloidal silica should be added towards the end of the production process and incorporated in the coating at a sufficient shear rate.

#### Properties

PROPERTIES	UNIT	SPECIFICATION
State	-	Colloidal dispersion
Appearance	-	Translucent
Nonvolatile matter (150°C, 10 minutes)	%	approx. 32%
Density*	g/cm <sup>3</sup>	0.9 - 1.2
OH Value (Active substance)	mg KOH/g	approx. 30

\* At time of packaging.

### Product Information



ISO 9001:2015

QMS granted by Universal GmbH



#### Packaging

**Biosilico CS.PC.5399** is supplied in 65L HDPE drums.

#### Storage and Handling

- Store in closed containers under dry condition, protect the material from volatile substances, and handle sensibly to minimize dust generation.
- This product should be used within 12 months from production date.

#### Safety Data

##### Warning

- Keep away from source of ignition to avoid spreading dust.
- Use with adequate ventilation.
- Drying and abrasive properties may cause skin, eye or respiratory irritation.
- Avoid inhalation or prolonged contact with skin.
- Dispose of in accordance with state and local requirement.
- See MSDS for more information.

##### First Aid

- Follow the rules of personal hygiene on dust inhalation and/or eye contact.

##### After eye contact

- Remove contact lens if have.
- Flush open eyes with large quantity running water for at least 15 minutes.
- Call for medical care if symptoms persist.

##### After skin contact

- Flush skin with water at least 15 minutes.
- Call for medical care if symptoms persist.

##### After inhalation

- Supply fresh air.
- Call for medical care if receive complaints.
- Do CPR if stop breathing.

##### After swallowing

- Call for medical care.
- Do not induce vomiting.

